#### REMARKS

The Office Action dated August 29, 2005, has been received and carefully considered. In this response, claims 22, 23, 28, and 36 have been amended. Entry of the amendments to claims 22, 23, 28, and 36 is respectfully requested. Reconsideration of the outstanding rejections in the present application is also respectfully requested based on the following remarks.

At the outset, Applicant notes with appreciation the indication on page 9 of the Office Action that claims 13 and 28-42 would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. However, Applicant has opted to defer rewriting claims 13 and 28-42 in independent form pending reconsideration of the arguments presented below with respect to the rejected claims.

#### I. THE ENABLEMENT REJECTION OF CLAIMS 1-88

On pages 2-3 of the Office Action, claims 1-88 were rejected under 35 U.S.C. § 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to make and/or use the invention. This rejection is hereby respectfully traversed.

The Examiner states that amended claims 1, 5, 12, 13, 21, 24-28, 43, 52, 59, 66, and 83 all recite that a modulated

acoustic field is generated without reliance on a fluid, gas, or exhaust. The Examiner then asserts that this recitation fails to comply with the written description requirement of 35 U.S.C. § 112, first paragraph, because this recitation is not included in the original specification. The Examiner relies on MPEP § 2173.05(i) for this assertion.

However, a proper reading of MPEP § 2173.05(i) indicates that "a lack of literal basis in the specification for a negative limitation may not be sufficient to establish a prima facie case for lack of descriptive support." MPEP § 2173.05(i) merely requires that "[a]ny negative limitation or exclusionary proviso must have basis in the original disclosure." Applicants respectfully submit that the original disclosure has such basis. That is, it is clear that the specification provides support for an acoustic generator that is operable to generate a modulated acoustic field without reliance on a fluid, gas, or exhaust, wherein the modulated acoustic field is applied to the fluid, gas, or exhaust to enhance agglomeration of constituents in the fluid, gas, or exhaust, as claimed. Indeed, in every embodiment shown and described in the specification, an acoustic generator generates a modulated acoustic field without reliance on a fluid, gas, or exhaust. Instead, the disclosed acoustic generators generate modulated acoustic fields via mechanical, electrical, and electrodynamic methods, wherein all of these

methods do not rely on the fluid, gas, or exhaust to which the modulated acoustic fields will be applied. Accordingly, it is respectfully submitted that claims 1, 5, 12, 13, 21, 24-28, 43, 52, 59, 66, and 83 fully comply with the written description requirement of 35 U.S.C. § 112, first paragraph.

At this point it should be noted that claims 22, 23, 28, and 36 have been amended to correct dependency errors that were inadvertently made.

In view of the foregoing, it is respectfully requested that the aforementioned enablement rejection of claims 1-88 be withdrawn.

### II. THE ANTICIPATION REJECTION OF CLAIMS 1-12 AND 14

On pages 3-4 of the Office Action, claims 1-12 and 14 were rejected under 35 U.S.C. § 102(b) as being anticipated by Bodai et al. (U.S. Patent No. 4,253,508). This rejection is hereby respectfully traversed.

Under 35 U.S.C. § 102, the Patent Office bears the burden of presenting at least a prima facie case of anticipation. In resum, 31 USPQ2d 1451, 1453 (Fed. Cir. 1993) (unpublished). Anticipation requires that a prior art reference disclose, either expressly or under the principles of inherency, each and every element of the claimed invention. Id. "In addition, the prior art reference must be enabling." Akzo N.V. v. U.S.

International Trade Commission, 808 F.2d 1471, 1479, 1 USPQ2d 1241, 1245 (Fed. Cir. 1986), cert. denied, 482 U.S. 909 (1987). That is, the prior art reference must sufficiently describe the claimed invention so as to have placed the public in possession of it. In re Donohue, 766 F.2d 531, 533, 226 USPQ 619, 621 (Fed. Cir. 1985). "Such possession is effected if one of ordinary skill in the art could have combined the publication's description of the invention with his own knowledge to make the claimed invention." Id..

Regarding claim 1, the Examiner asserts that Bodai et al. teaches an acoustic agglomerator for agglomerating constituents comprising an acoustic generator configured to communicate with an area containing a fluid having constituents, wherein the acoustic generator is operable to generate a frequency modulated acoustic field to enhance agglomeration of the constituents in the fluid.

However, it is respectfully submitted that Bodai et al. fails to disclose an acoustic agglomerator for agglomerating constituents comprising an acoustic generator configured to communicate with an area containing a fluid having constituents, wherein the acoustic generator is operable to generate a frequency modulated acoustic field without reliance on the fluid, wherein the frequency modulated acoustic field is applied to the fluid to enhance agglomeration of the constituents in the

fluid, as claimed. That is, Applicant respectfully submits that Bodai et al. does not disclose, or even suggest, generating a frequency modulated acoustic field without reliance on a fluid having constituents, wherein the frequency modulated acoustic field is applied to the fluid to enhance agglomeration of the constituents in the fluid. Thus, it is respectfully submitted that Bodai et al. does not disclose, or even suggest, the claimed invention. Accordingly, it is respectfully submitted that claim 1 should be allowable.

Claims 2-12 and 14 are dependent upon independent claim 1. Thus, since independent claim 1 should be allowable as discussed above, claims 2-14 and 14 should also be allowable at least by virtue of their dependency on independent claim 1. Moreover, these claims recite additional features which are not claimed, disclosed, or even suggested by the cited references taken either alone or in combination. Accordingly, it is respectfully submitted that claims 2-12 and 14 should be allowable.

In view of the foregoing, it is respectfully requested that the aforementioned anticipation rejection of claims 1-12 and 14 be withdrawn.

### III. THE ANTICIPATION REJECTION OF CLAIMS 21-27

On pages 4-5 of the Office Action, claims 21-27 were rejected under 35 U.S.C. § 102(b) as being anticipated by Bodai

et al. (U.S. Patent No. 4,253,508). This rejection is hereby respectfully traversed.

Regarding claim 21, the Examiner asserts that Bodai et al. teaches an acoustic agglomerator for agglomerating constituents comprising an acoustic generator configured to communicate with an area containing a gas having constituents, wherein the acoustic generator is operable to generate a modulated acoustic field to enhance agglomeration of the constituents in the gas.

However, it is respectfully submitted that Bodai et al. fails to disclose an acoustic agglomerator for agglomerating constituents comprising an acoustic generator configured to communicate with an area containing a gas having constituents, wherein the acoustic generator is operable to generate a modulated acoustic field without reliance on the gas, wherein the modulated acoustic field is applied to the gas to enhance agglomeration of the constituents in the gas, as claimed. is, Applicant respectfully submits that Bodai et al. does not disclose, or even suggest, generating a modulated acoustic field without reliance on a gas having constituents, wherein the modulated acoustic field is applied to the gas to enhance agglomeration of the constituents in the gas. Thus, respectfully submitted that Bodai et al. does not disclose, even suggest, the claimed invention. Accordingly, it is respectfully submitted that claim 21 should be allowable.

Claims 22-27 are dependent upon independent claim 21. Thus, since independent claim 21 should be allowable as discussed above, claims 22-27 should also be allowable at least by virtue of their dependency on independent claim 21. Moreover, these claims recite additional features which are not claimed, disclosed, or even suggested by the cited references taken either alone or in combination. Accordingly, it is respectfully submitted that claims 22-27 should be allowable.

In view of the foregoing, it is respectfully requested that the aforementioned anticipation rejection of claims 21-27 be withdrawn.

# IV. THE ANTICIPATION REJECTION OF CLAIMS 43-46, 50, AND 51

On page 5 of the Office Action, claims 43-46, 50, and 51 were rejected under 35 U.S.C. § 102(b) as being anticipated by Scott (U.S. Patent No. 3,771,286). This rejection is hereby respectfully traversed.

Regarding claim 43, the Examiner asserts that Scott teaches an acoustic agglomerator for agglomerating constituents comprising an acoustic generator configured to communicate with a fluid having constituents, wherein the fluid is in an open area, and wherein the acoustic generator is operable to generate an acoustic field to enhance agglomeration of the constituents in the fluid in the open area.

However, it is respectfully submitted that Scott fails to disclose an acoustic agglomerator for agglomerating constituents comprising an acoustic generator configured to communicate with a fluid having constituents, wherein the fluid is in an open area, wherein the acoustic generator is operable to generate a modulated acoustic field without reliance on the fluid, wherein the modulated acoustic field is applied to the fluid to enhance agglomeration of the constituents in the fluid in the open area, as claimed. That is, Applicant respectfully submits that Scott does not disclose, or even suggest, generating a modulated acoustic field without reliance on a fluid having constituents, wherein the modulated acoustic field is applied to the fluid to enhance agglomeration of the constituents in the fluid. it is respectfully submitted that Scott does not disclose, or even suggest, the presently claimed invention. Accordingly, it is respectfully submitted that claim 43 should be allowable.

Claims 44-46, 50, and 51 are dependent upon independent claim 43. Thus, since independent claim 43 should be allowable as discussed above, claims 44-46, 50, and 51 should also be allowable at least by virtue of their dependency on independent claim 43. Moreover, these claims recite additional features which are not claimed, disclosed, or even suggested by the cited references taken either alone or in combination. Accordingly,

it is respectfully submitted that claims 44-46, 50, and 51 should be allowable.

In view of the foregoing, it is respectfully requested that the aforementioned anticipation rejection of claims 43-46, 50, and 51 be withdrawn.

### V. THE ANTICIPATION REJECTION OF CLAIMS 52 AND 56-58

On pages 5-6 of the Office Action, claims 52 and 56-58 were rejected under 35 U.S.C. § 102(b) as being anticipated by Scott (U.S. Patent No. 3,771,286). This rejection is hereby respectfully traversed.

Regarding claim 52, the Examiner asserts that Scott teaches an acoustic agglomerator for agglomerating constituents, comprising an acoustic generator configured to communicate with an exhaust of a vehicle having constituents, wherein the acoustic generator is operable to generate an acoustic field to the exhaust to enhance agglomeration of the constituents in the exhaust.

However, it is respectfully submitted that Scott fails to disclose an acoustic agglomerator for agglomerating constituents comprising an acoustic generator configured to communicate with an exhaust of a vehicle having constituents, wherein the acoustic generator is operable to generate a modulated acoustic field without reliance on the exhaust, wherein the modulated

acoustic field is applied to the exhaust to enhance agglomeration of the constituents in the exhaust, as claimed. That is, Applicant respectfully submits that Scott does not disclose, or even suggest, generating a modulated acoustic field without reliance on an exhaust having constituents, wherein the modulated acoustic field is applied to the exhaust to enhance agglomeration of the constituents in the exhaust. Thus, it is respectfully submitted that Scott does not disclose, or even suggest, the claimed invention. Accordingly, it is respectfully submitted that claim 52 should be allowable.

Claims 56-58 are dependent upon independent claim 52. Thus, since independent claim 52 should be allowable as discussed above, claims 56-58 should also be allowable at least by virtue of their dependency on independent claim 52. Moreover, these claims recite additional features which are not claimed, disclosed, or even suggested by the cited references taken either alone or in combination. Accordingly, it is respectfully submitted that claims 56-58 should be allowable.

In view of the foregoing, it is respectfully requested that the aforementioned anticipation rejection of claims 52 and 56-58 be withdrawn.

### VI. THE ANTICIPATION REJECTION OF CLAIMS 59-62

On page 6 of the Office Action, claims 59-62 were rejected under 35 U.S.C. § 102(b) as being anticipated by Scott (U.S. Patent No. 3,771,286). This rejection is hereby respectfully traversed.

Regarding claim 59, the Examiner asserts that Scott teaches an acoustic agglomerator for agglomerating constituents comprising an acoustic generator configured to communicate with an area with a fluid flow having constituents, wherein the acoustic generator is operable to generate an acoustic field to enhance agglomeration of the constituents in the area, and the acoustic generator applies the acoustic field to the area at an angle arbitrary to a direction of the fluid flow.

However, it is respectfully submitted that Scott fails to disclose an acoustic agglomerator for agglomerating constituents comprising an acoustic generator configured to communicate with an area with a fluid flow having constituents, wherein the acoustic generator is operable to generate a modulated acoustic field without reliance on the fluid flow, wherein the modulated acoustic field is applied to the fluid flow to enhance agglomeration of the constituents in the area, and the acoustic generator applies the modulated acoustic field to the area at an angle arbitrary to a direction of the fluid flow, as claimed. That is, Applicant respectfully submits that Scott does not disclose, or even suggest, generating a modulated acoustic field

without reliance on a fluid flow, wherein the modulated acoustic field is applied to the fluid flow to enhance agglomeration of the constituents in the fluid flow. Thus, it is respectfully submitted that Scott does not disclose, or even suggest, the claimed invention. Accordingly, it is respectfully submitted that claim 59 should be allowable.

Claims 60-62 are dependent upon independent claim 59. Thus, since independent claim 59 should be allowable as discussed above, claims 60-62 should also be allowable at least by virtue of their dependency on independent claim 59. Moreover, these claims recite additional features which are not claimed, disclosed, or even suggested by the cited references taken either alone or in combination. Accordingly, it is respectfully submitted that claims 60-62 should be allowable.

In view of the foregoing, it is respectfully requested that the aforementioned anticipation rejection of claims 59-62 be withdrawn.

## VII. THE ANTICIPATION REJECTION OF CLAIMS 66-69 AND 82

On pages 6-7 of the Office Action, claims 66-69 and 82 were rejected under 35 U.S.C. § 102(b) as being anticipated by Dudgeon et al. (U.S. Patent No. 4,307,964). This rejection is hereby respectfully traversed.

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Regarding claim 66, the Examiner asserts that Dudgeon et al. teaches an acoustic agglomerator for agglomerating constituents comprising: an acoustic generator configured to communicate with an area containing a fluid with constituents, wherein the acoustic generator is operable to generate an acoustic field to enhance agglomeration of the constituents in the area; and a system operable to determine information about the constituents in the area, wherein the acoustic generator can modify the acoustic field in response to the information.

However, it is respectfully submitted that Dudgeon et al. fails to disclose an acoustic agglomerator for agglomerating constituents comprising: an acoustic generator configured to communicate with an area containing a fluid with constituents, wherein the acoustic generator is operable to generate a modulated acoustic field without reliance on the fluid, wherein the modulated acoustic field is applied to the fluid to enhance agglomeration of the constituents in the area; and a system operable to determine information about the constituents in the area, wherein the acoustic generator can modify the modulated acoustic field in response to the information, as claimed. is, Applicant respectfully submits that Dudgeon et al. does not disclose, or even suggest, generating a modulated acoustic field without reliance on a fluid having constituents in an area, wherein the modulated acoustic field is applied to the fluid to

enhance agglomeration of the constituents in the area. Thus, it is respectfully submitted that Dudgeon et al. does not disclose, or even suggest, the claimed invention. Accordingly, it is respectfully submitted that claim 66 should be allowable.

Claims 67-69 and 82 are dependent upon independent claim 66. Thus, since independent claim 66 should be allowable as discussed above, claims 67-69 and 82 should also be allowable at least by virtue of their dependency on independent claim 66. Moreover, these claims recite additional features which are not claimed, disclosed, or even suggested by the cited references taken either alone or in combination. Accordingly, it is respectfully submitted that claims 67-69 and 82 should be allowable.

In view of the foregoing, it is respectfully requested that the aforementioned anticipation rejection of claims 66-69 and 82 be withdrawn.

## VIII. THE ANTICIPATION REJECTION OF CLAIMS 83, 87, AND 88

On page 7 of the Office Action, claims 83, 87, and 88 were rejected under 35 U.S.C. § 102(b) as being anticipated by Dudgeon et al. (U.S. Patent No. 4,307,964). This rejection is hereby respectfully traversed.

Regarding claim 66, the Examiner asserts that Dudgeon et al. teaches a method of decreasing the frequency of cleaning a

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filtration device comprising: providing a filtration device operable to filter a fluid stream having constituents; and applying an acoustic field to the fluid stream at a point upstream of the filtration device, wherein the acoustic field enhances an agglomeration of the constituents.

However, it is respectfully submitted that Dudgeon et al. fails to disclose a method of decreasing the frequency of cleaning a filtration device comprising: providing a filtration device operable to filter a fluid stream having constituents; generating a modulated acoustic field without reliance on the fluid stream; applying the modulated acoustic field to the fluid stream at a point upstream of the filtration device, wherein the modulated acoustic field enhances an agglomeration of constituents, as claimed. That is, Applicant respectfully submits that Dudgeon et al. does not disclose, or even suggest, generating a modulated acoustic field without reliance on a fluid stream having constituents, wherein the modulated acoustic field is applied to the fluid stream to enhance agglomeration of the constituents. Thus, it is respectfully submitted that Dudgeon et al. does not disclose, or even suggest, the claimed invention. Accordingly, it is respectfully submitted that claim 83 should be allowable.

Claims 87 and 88 are dependent upon independent claim 83.

Thus, since independent claim 83 should be allowable as

discussed above, claims 87 and 88 should also be allowable at least by virtue of their dependency on independent claim 83. Moreover, these claims recite additional features which are not claimed, disclosed, or even suggested by the cited references taken either alone or in combination. Accordingly, it is respectfully submitted that claims 87 and 88 should be allowable.

In view of the foregoing, it is respectfully requested that the aforementioned anticipation rejection of claims 83, 87, and 88 be withdrawn.

### IX. THE ANTICIPATION REJECTION OF CLAIMS 83-88

On page 7 of the Office Action, claims 83-88 were rejected under 35 U.S.C. § 102(b) as being anticipated by Bodai et al. (U.S. Patent No. 4,253,508). This rejection is hereby respectfully traversed with amendment.

Regarding claim 83, the Examiner asserts that Bodai et al. teaches a method of decreasing the frequency of cleaning a filtration device comprising: providing a filtration device, operable to filter a fluid stream having constituents; and applying an acoustic field to the fluid stream at a point upstream of the filtration device, wherein the acoustic field enhances an agglomeration of the constituents.

However, it is respectfully submitted that Bodai et al. fails to disclose a method of decreasing the frequency of cleaning a filtration device comprising: providing a filtration device operable to filter a fluid stream having constituents; generating a modulated acoustic field without reliance on the fluid stream; applying the modulated acoustic field to the fluid stream at a point upstream of the filtration device, wherein the modulated acoustic field enhances an agglomeration of constituents, as claimed. That is, Applicant respectfully submits that Bodai et al. does not disclose, or even suggest, generating a modulated acoustic field without reliance on a fluid stream having constituents, and applying the modulated acoustic field to the fluid stream at a point upstream of a filtration device, wherein the modulated acoustic field enhances an agglomeration of the constituents. Thus, it is respectfully submitted that Bodai et al. does not disclose, or even suggest, the presently claimed invention. Accordingly, it is respectfully submitted that claim 83 should be allowable.

Claims 84-88 are dependent upon independent claim 83. Thus, since independent claim 83 should be allowable as discussed above, claims 84-88 should also be allowable at least by virtue of their dependency on independent claim 83. Moreover, these claims recite additional features which are not claimed, disclosed, or even suggested by the cited references

taken either alone or in combination. Accordingly, it is respectfully submitted that claims 84-88 should be allowable.

In view of the foregoing, it is respectfully requested that the aforementioned anticipation rejection of claims 83-88 be withdrawn.

### X. THE OBVIOUSNESS REJECTION OF CLAIMS 47-49, 53-55, AND 63-65

On page 8 of the Office Action, claims 47-49, 53-55, and 63-65 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Scott (U.S. Patent No. 3,771,286) in view of Bodai et al. (U.S. Patent No. 4,253,508). This rejection is hereby respectfully traversed.

As stated in MPEP § 2143, to establish a prima facie case of obviousness, three basic criteria must be met. First, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine reference teachings. Second, there must be a reasonable expectation of success. Finally, the prior art reference (or references when combined) must teach or suggest all the claim limitations. The teaching or suggestion to make the claimed combination and the reasonable expectation of success must both be found in the prior art, not in applicant's disclosure. In re

stated in MPEP § 2143.01, obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. In re Fine, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988); In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. The mere fact that references can be combined or modified does not render the resultant combination obvious unless the prior art also suggests the desirability of the combination. In re Mills, 916 F.2d 680, 16 USPQ2d 1430 (Fed. Cir. 1990). Further, as stated in MPEP § 2143.03, to establish prima facie obviousness of a claimed invention, all the claim limitations must be taught or suggested by the prior art. In re Royka, 490 F.2d 981, 180 USPQ 580 (CCPA 1974). That is, "[a]11 words in a claim must be considered in judging the patentability of that claim against the prior art." In re Wilson, 424 F.2d 1382, 165 USPQ 494, 496 (CCPA 1970). Additionally, as stated in MPEP § 2141.02, a prior art reference must be considered in its entirety, i.e., as a whole, including portions that would lead away from the claimed invention. W.L. Gore & Associates, Inc. v. Garlock, Inc., 721 F.2d 1540, 220 USPQ 303 (Fed. Cir. 1983), cert. denied, 469 U.S. 851 (1984). Finally, if an independent claim is nonobvious under 35 U.S.C. 103, then any claim

depending therefrom is nonobvious. <u>In re Fine</u>, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988).

Claims 47-49 are dependent upon independent claim 43. Thus, since independent claim 43 should be allowable, as discussed above, claims 47-49 should also be allowable at least by virtue of their dependency on independent claim 43. Moreover, these claims recite additional features which are not claimed, disclosed, or even suggested by the cited references taken either alone or in combination. Accordingly, it is respectfully submitted that claims 47-49 should be allowable.

Claims 53-55 are dependent upon independent claim 52. Thus, since independent claim 52 should be allowable, as discussed above, claims 53-55 should also be allowable at least by virtue of their dependency on independent claim 52. Moreover, these claims recite additional features which are not claimed, disclosed, or even suggested by the cited references taken either alone or in combination. Accordingly, it is respectfully submitted that claims 53-55 should be allowable.

Claims 63-65 are dependent upon independent claim 59. Thus, since independent claim 59 should be allowable, as discussed above, claims 63-65 should also be allowable at least by virtue of their dependency on independent claim 59. Moreover, these claims recite additional features which are not claimed, disclosed, or even suggested by the cited references

taken either alone or in combination. Accordingly, it is respectfully submitted that claims 63-65 should be allowable.

In view of the foregoing, it is respectfully requested that the aforementioned obviousness rejection of claims 47-49, 53-55, and 63-65 be withdrawn.

### XI. THE OBVIOUSNESS REJECTION OF CLAIMS 70-81

On pages 8-9 of the Office Action, claims 70-81 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Dudgeon et al. (U.S. Patent No. 4,307,964) in view of Bodai et al. (U.S. Patent No. 4,253,508). This rejection is hereby respectfully traversed.

Claims 70-81 are dependent upon independent claim 66. Thus, since independent claim 66 should be allowable, as discussed above, claims 70-81 should also be allowable at least by virtue of their dependency on independent claim 66. Moreover, these claims recite additional features which are not claimed, disclosed, or even suggested by the cited references taken either alone or in combination. Accordingly, it is respectfully submitted that claims 70-81 should be allowable.

In view of the foregoing, it is respectfully requested that the aforementioned obviousness rejection of claims 70-81 be withdrawn.

# XII. THE OBVIOUSNESS REJECTION OF CLAIMS 1, 3, 4, AND 14-20

On pages 9-10 of the Office Action, claims 1, 3, 4, and 14-20 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Dudgeon et al. (U.S. Patent No. 4,307,964) in view of Bodai et al. (U.S. Patent No. 4,253,508). This rejection is hereby respectfully traversed.

Regarding claim 1, the Examiner asserts that the combination of Dudgeon et al. and Bodai et al. teaches an acoustic agglomerator for agglomerating constituents comprising an acoustic generator configured to communicate with an area containing a fluid having constituents, wherein the acoustic generator is operable to generate a frequency modulated acoustic field to enhance agglomeration of the constituents in the fluid.

However, it is respectfully submitted that the combination of Dudgeon et al. and Bodai et al. fails to disclose an acoustic agglomerator for agglomerating constituents comprising an acoustic generator configured to communicate with an area containing a fluid having constituents, wherein the acoustic generator is operable to generate a frequency modulated acoustic field without reliance on the fluid, wherein the frequency modulated acoustic field is applied to the fluid to enhance agglomeration of the constituents in the fluid, as presently claimed. That is, Applicant respectfully submits that Dudgeon et al. and Bodai et al., either alone or in combination,

disclose, or even suggest, generating a frequency modulated acoustic field without reliance on a fluid having constituents, wherein the frequency modulated acoustic field is applied to the fluid to enhance agglomeration of the constituents in the fluid. Thus, it is respectfully submitted that the combination of Dudgeon et al. and Bodai et al. does not disclose, or even suggest, the presently claimed invention. Accordingly, it is respectfully submitted that claim 1 should be allowable.

Claims 3, 4, and 14-20 are dependent upon independent claim 1. Thus, since independent claim 1 should be allowable as discussed above, claims 3, 4, and 14-20 should also be allowable at least by virtue of their dependency on independent claim 1. Moreover, these claims recite additional features which are not claimed, disclosed, or even suggested by the cited references taken either alone or in combination. Accordingly, it is respectfully submitted that claims 3, 4, and 14-20 should be allowable.

In view of the foregoing, it is respectfully requested that the aforementioned obviousness rejection of claims 1, 3, 4, and 14-20 be withdrawn.

#### XIII. CONCLUSION

In view of the foregoing, it is respectfully submitted that the present application is in condition for allowance, and an

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early indication of the same is courteously solicited. The Examiner is respectfully requested to contact the undersigned by telephone at the below listed telephone number, in order to expedite resolution of any issues and to expedite passage of the present application to issue, if any comments, questions, or suggestions arise in connection with the present application.

To the extent necessary, a petition for an extension of time under 37 CFR § 1.136 is hereby made.

Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account No. 50-0206, and please credit any excess fees to the same deposit account.

Respectfully submitted,

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